

```
<?xml version="1.0" encoding="utf-8"?>
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      Not a contribution.
```

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```
-->
<!DOCTYPE MediaSettings [
  <!ELEMENT MediaSettings (CamcorderProfiles,
                           EncoderOutputFileFormat+,
                           VideoEncoderCap+,
                           AudioEncoderCap+,
                           VideoDecoderCap,
                           AudioDecoderCap)>
  <!ELEMENT CamcorderProfiles (EncoderProfile+, ImageEncoding+, ImageDecoding, Camera)>
  <!ELEMENT EncoderProfile (Video, Audio)>
  <!ATTLIST EncoderProfile quality (high|low) #REQUIRED>
  <!ATTLIST EncoderProfile fileFormat (mp4|3gp) #REQUIRED>
  <!ATTLIST EncoderProfile duration (30|60) #REQUIRED>
  <!ATTLIST EncoderProfile cameraId (0|1) #REQUIRED>
  <!ELEMENT Video EMPTY>
  <!ATTLIST Video codec (h264|h263|m4v) #REQUIRED>
  <!ATTLIST Video bitRate CDATA #REQUIRED>
  <!ATTLIST Video width CDATA #REQUIRED>
  <!ATTLIST Video height CDATA #REQUIRED>
  <!ATTLIST Video frameRate CDATA #REQUIRED>
  <!ELEMENT Audio EMPTY>
  <!ATTLIST Audio codec (amrnb|amrwb|aac|pcm) #REQUIRED>
  <!ATTLIST Audio bitRate CDATA #REQUIRED>
  <!ATTLIST Audio sampleRate CDATA #REQUIRED>
  <!ATTLIST Audio channels (1|2|6) #REQUIRED>
  <!ELEMENT ImageEncoding EMPTY>
  <!ATTLIST ImageEncoding quality (90|80|70|60|50|40) #REQUIRED>
  <!ELEMENT ImageDecoding EMPTY>
  <!ATTLIST ImageDecoding memCap CDATA #REQUIRED>
  <!ELEMENT Camera EMPTY>
  <!ELEMENT EncoderOutputFileFormat EMPTY>
  <!ATTLIST EncoderOutputFileFormat name (mp4|3gp) #REQUIRED>
  <!ELEMENT VideoEncoderCap EMPTY>
  <!ATTLIST VideoEncoderCap name (h264|h263|m4v|wmv) #REQUIRED>
  <!ATTLIST VideoEncoderCap enabled (true|false) #REQUIRED>
  <!ATTLIST VideoEncoderCap minBitRate CDATA #REQUIRED>
  <!ATTLIST VideoEncoderCap maxBitRate CDATA #REQUIRED>
  <!ATTLIST VideoEncoderCap minFrameWidth CDATA #REQUIRED>
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<!ATTLIST VideoEncoderCap maxFrameWidth CDATA #REQUIRED>
<!ATTLIST VideoEncoderCap minFrameHeight CDATA #REQUIRED>
<!ATTLIST VideoEncoderCap maxFrameHeight CDATA #REQUIRED>
<!ATTLIST VideoEncoderCap minFrameRate CDATA #REQUIRED>
<!ATTLIST VideoEncoderCap maxFrameRate CDATA #REQUIRED>
<!ELEMENT AudioEncoderCap EMPTY>
<!ATTLIST AudioEncoderCap name (amrnb |amrwb |aac |wma |pcm) #REQUIRED>
<!ATTLIST AudioEncoderCap enabled (true |false) #REQUIRED>
<!ATTLIST AudioEncoderCap minBitRate CDATA #REQUIRED>
<!ATTLIST AudioEncoderCap maxBitRate CDATA #REQUIRED>
<!ATTLIST AudioEncoderCap minSampleRate CDATA #REQUIRED>
<!ATTLIST AudioEncoderCap maxSampleRate CDATA #REQUIRED>
<!ATTLIST AudioEncoderCap minChannels (1 |2 |6) #REQUIRED>
<!ATTLIST AudioEncoderCap maxChannels (1 |2 |6) #REQUIRED>
<!ELEMENT VideoDecoderCap EMPTY>
<!ATTLIST VideoDecoderCap name (wmv) #REQUIRED>
<!ATTLIST VideoDecoderCap enabled (true |false) #REQUIRED>
<!ELEMENT AudioDecoderCap EMPTY>
<!ATTLIST AudioDecoderCap name (wma) #REQUIRED>
<!ATTLIST AudioDecoderCap enabled (true |false) #REQUIRED>
<!ELEMENT VideoEditorCap EMPTY>
<!ATTLIST VideoEditorCap maxInputFrameWidth CDATA #REQUIRED>
<!ATTLIST VideoEditorCap maxInputFrameHeight CDATA #REQUIRED>
<!ATTLIST VideoEditorCap maxOutputFrameWidth CDATA #REQUIRED>
<!ATTLIST VideoEditorCap maxOutputFrameHeight CDATA #REQUIRED>
<!ATTLIST VideoEditorCap maxPrefetchYUVFrames CDATA #REQUIRED>
<!ELEMENT ExportVideoProfile EMPTY>
<!ATTLIST ExportVideoProfile name (h264 |h263 |m4v) #REQUIRED>
<!ATTLIST ExportVideoProfile profile CDATA #REQUIRED>
<!ATTLIST ExportVideoProfile level CDATA #REQUIRED>
]
<!--
    This file is used to declare the multimedia profiles and capabilities
    on an android-powered device.
-->
<MediaSettings>
  <!-- Each camcorder profile defines a set of predefined configuration parameters -->
  <!-- Back Camera -->
  <CamcorderProfiles cameraId="0" startOffsetMs="300">

    <EncoderProfile quality="low" fileFormat="3gp" duration="30">
      <Video codec="h264"
        bitRate="192000"
        width="176"
        height="144"
        frameRate="30" />

      <Audio codec="amrnb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
    </EncoderProfile>

    <EncoderProfile quality="high" fileFormat="mp4" duration="30">
      <Video codec="h264"

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        bitRate="20000000"
        width="1920"
        height="1080"
        frameRate="30" />

<Audio codec="aac"
        bitRate="156000"
        sampleRate="48000"
        channels="2" />
</EncoderProfile>

<EncoderProfile quality="cif" fileFormat="3gp" duration="30">
  <Video codec="h264"
    bitRate="720000"
    width="352"
    height="288"
    frameRate="30" />

    <Audio codec="ammb"
      bitRate="12200"
      sampleRate="8000"
      channels="1" />
  </Audio>
</EncoderProfile>

<EncoderProfile quality="480p" fileFormat="mp4" duration="30">
  <Video codec="h264"
    bitRate="2000000"
    width="720"
    height="480"
    frameRate="30" />

    <Audio codec="aac"
      bitRate="156000"
      sampleRate="48000"
      channels="2" />
  </Audio>
</EncoderProfile>

<EncoderProfile quality="720p" fileFormat="mp4" duration="30">
  <Video codec="h264"
    bitRate="14000000"
    width="1280"
    height="720"
    frameRate="30" />

    <Audio codec="aac"
      bitRate="156000"
      sampleRate="48000"
      channels="2" />
  </Audio>
</EncoderProfile>

<EncoderProfile quality="1080p" fileFormat="mp4" duration="30">
  <Video codec="h264"
    bitRate="20000000"

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        width="1920"
        height="1080"
        frameRate="30" />

    <Audio codec="aac"
        bitRate="156000"
        sampleRate="48000"
        channels="2" />
</EncoderProfile>

<EncoderProfile quality="qcif" fileFormat="3gp" duration="30">
    <Video codec="h264"
        bitRate="192000"
        width="176"
        height="144"
        frameRate="30" />

    <Audio codec="amrnb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="wvga" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="2000000"
        width="800"
        height="480"
        frameRate="30" />

    <Audio codec="aac"
        bitRate="156000"
        sampleRate="48000"
        channels="2" />
</EncoderProfile>

<EncoderProfile quality="vga" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="2000000"
        width="640"
        height="480"
        frameRate="30" />

    <Audio codec="aac"
        bitRate="156000"
        sampleRate="48000"
        channels="2" />
</EncoderProfile>

<EncoderProfile quality="timelapselow" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="192000"
        width="176"
        height="144"
        frameRate="30" />
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    <!-- audio setting is ignored -->
    <Audio codec="ammb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelapsehigh" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="20000000"
        width="1920"
        height="1080"
        frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="aac"
        bitRate="156000"
        sampleRate="48000"
        channels="2" />
</EncoderProfile>

<EncoderProfile quality="timelapseqcif" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="192000"
        width="176"
        height="144"
        frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="ammb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelapsecif" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="720000"
        width="352"
        height="288"
        frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="ammb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelapsewqvg" fileFormat="mp4" duration="30">
    <Video codec="h264"

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        bitRate="720000"
        width="432"
        height="240"
        frameRate="30" />

<!-- audio setting is ignored -->
<Audio codec="ammb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelaps evga" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="2000000"
        width="640"
        height="480"
        frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="ammb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelaps ewvga" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="2000000"
        width="800"
        height="480"
        frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="ammb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelaps efwvga" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="2000000"
        width="864"
        height="480"
        frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="ammb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelaps e480p" fileFormat="mp4" duration="30">

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    <Video codec="h264"
        bitRate="2000000"
        width="640"
        height="480"
        frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="aac"
        bitRate="156000"
        sampleRate="48000"
        channels="2" />
</EncoderProfile>

<EncoderProfile quality="timelapse720p" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="14000000"
        width="1280"
        height="720"
        frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="aac"
        bitRate="156000"
        sampleRate="48000"
        channels="2" />
</EncoderProfile>

<EncoderProfile quality="timelapse1080p" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="20000000"
        width="1920"
        height="1080"
        frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="aac"
        bitRate="156000"
        sampleRate="48000"
        channels="2" />
</EncoderProfile>

    <ImageEncoding quality="95" />
    <ImageEncoding quality="80" />
    <ImageEncoding quality="70" />
    <ImageDecoding memCap="20000000" />

</CamcorderProfiles>
<!-- Front Camera -->
<CamcorderProfiles cameraId="1" startOffsetMs="300">

<EncoderProfile quality="low" fileFormat="3gp" duration="30">
    <Video codec="h264"
        bitRate="192000"
        width="176"
        height="144"

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        frameRate="30" />

        <Audio codec="ammb"
            bitRate="12200"
            sampleRate="8000"
            channels="1" />
    </EncoderProfile>

    <EncoderProfile quality="high" fileFormat="mp4" duration="30">
        <Video codec="h264"
            bitRate="14000000"
            width="1280"
            height="720"
            frameRate="30" />

        <Audio codec="aac"
            bitRate="156000"
            sampleRate="48000"
            channels="2" />
    </EncoderProfile>

    <EncoderProfile quality="cif" fileFormat="3gp" duration="30">
        <Video codec="h264"
            bitRate="720000"
            width="352"
            height="288"
            frameRate="30" />

        <Audio codec="ammb"
            bitRate="12200"
            sampleRate="8000"
            channels="1" />
    </EncoderProfile>

    <EncoderProfile quality="480p" fileFormat="mp4" duration="30">
        <Video codec="h264"
            bitRate="2000000"
            width="720"
            height="480"
            frameRate="30" />

        <Audio codec="aac"
            bitRate="156000"
            sampleRate="48000"
            channels="2" />
    </EncoderProfile>

    <EncoderProfile quality="720p" fileFormat="mp4" duration="30">
        <Video codec="h264"
            bitRate="14000000"
            width="1280"
            height="720"
            frameRate="30" />
```



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    <Audio codec="aac"
        bitRate="156000"
        sampleRate="48000"
        channels="2" />
</EncoderProfile>

<EncoderProfile quality="qcif" fileFormat="3gp" duration="30">
    <Video codec="h264"
        bitRate="192000"
        width="176"
        height="144"
        frameRate="30" />

    <Audio codec="amrnb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="wvga" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="2000000"
        width="800"
        height="480"
        frameRate="30" />

    <Audio codec="aac"
        bitRate="156000"
        sampleRate="48000"
        channels="2" />
</EncoderProfile>

<EncoderProfile quality="vga" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="2000000"
        width="640"
        height="480"
        frameRate="30" />

    <Audio codec="aac"
        bitRate="156000"
        sampleRate="48000"
        channels="2" />
</EncoderProfile>

<EncoderProfile quality="timelapselow" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="192000"
        width="176"
        height="144"
        frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="amrnb"

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        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelapsehigh" fileFormat="mp4" duration="30">
  <Video codec="h264"
    bitRate="8000000"
    width="1280"
    height="720"
    frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="aac"
      bitRate="96000"
      sampleRate="48000"
      channels="1" />
</EncoderProfile>
<EncoderProfile quality="timelapseqcif" fileFormat="mp4" duration="30">
  <Video codec="h264"
    bitRate="192000"
    width="176"
    height="144"
    frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="ammb"
      bitRate="12200"
      sampleRate="8000"
      channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelapsecif" fileFormat="mp4" duration="30">
  <Video codec="h264"
    bitRate="1200000"
    width="352"
    height="288"
    frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="aac"
      bitRate="96000"
      sampleRate="48000"
      channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelapsewqvg" fileFormat="mp4" duration="30">
  <Video codec="h264"
    bitRate="720000"
    width="432"
    height="240"
    frameRate="30" />

```

```
<!-- audio setting is ignored -->
<Audio codec="ammb"
      bitRate="12200"
      sampleRate="8000"
      channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelapsevga" fileFormat="mp4" duration="30">
  <Video codec="h264"
        bitRate="2000000"
        width="640"
        height="480"
        frameRate="30" />

  <!-- audio setting is ignored -->
  <Audio codec="ammb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelapsewvga" fileFormat="mp4" duration="30">
  <Video codec="h264"
        bitRate="2000000"
        width="800"
        height="480"
        frameRate="30" />

  <!-- audio setting is ignored -->
  <Audio codec="ammb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelapsefwvga" fileFormat="mp4" duration="30">
  <Video codec="h264"
        bitRate="2000000"
        width="864"
        height="480"
        frameRate="30" />

  <!-- audio setting is ignored -->
  <Audio codec="ammb"
        bitRate="12200"
        sampleRate="8000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelapse480p" fileFormat="mp4" duration="30">
  <Video codec="h264"
        bitRate="5000000"
        width="720"
        height="480"
        frameRate="30" />
```

```

    <!-- audio setting is ignored -->
    <Audio codec="aac"
        bitRate="96000"
        sampleRate="48000"
        channels="1" />
</EncoderProfile>

<EncoderProfile quality="timelapse720p" fileFormat="mp4" duration="30">
    <Video codec="h264"
        bitRate="8000000"
        width="1280"
        height="720"
        frameRate="30" />

    <!-- audio setting is ignored -->
    <Audio codec="aac"
        bitRate="96000"
        sampleRate="48000"
        channels="1" />
</EncoderProfile>

    <ImageEncoding quality="95" />
    <ImageEncoding quality="80" />
    <ImageEncoding quality="70" />
    <ImageDecoding memCap="20000000" />

</CamcorderProfiles>

<EncoderOutputFileFormat name="3gp" />
<EncoderOutputFileFormat name="mp4" />

<!--
    If a codec is not enabled, it is invisible to the applications
    In other words, the applications won't be able to use the codec
    or query the capabilities of the codec at all if it is disabled
-->
<VideoEncoderCap name="h264" enabled="true"
    minBitRate="64000" maxBitRate="20000000"
    minFrameWidth="176" maxFrameWidth="1920"
    minFrameHeight="144" maxFrameHeight="1088"
    minFrameRate="15" maxFrameRate="30" />

<VideoEncoderCap name="h263" enabled="true"
    minBitRate="64000" maxBitRate="2000000"
    minFrameWidth="176" maxFrameWidth="800"
    minFrameHeight="144" maxFrameHeight="480"
    minFrameRate="15" maxFrameRate="30" />

<VideoEncoderCap name="m4v" enabled="true"
    minBitRate="64000" maxBitRate="20000000"
    minFrameWidth="176" maxFrameWidth="1920"
    minFrameHeight="144" maxFrameHeight="1088"
    minFrameRate="15" maxFrameRate="30" />

```

```
<AudioEncoderCap name="aac" enabled="true"
  minBitRate="8000" maxBitRate="96000"
  minSampleRate="8000" maxSampleRate="48000"
  minChannels="1" maxChannels="6" />
```

```
<AudioEncoderCap name="amrwb" enabled="true"
  minBitRate="6600" maxBitRate="23850"
  minSampleRate="16000" maxSampleRate="16000"
  minChannels="1" maxChannels="1" />
```

```
<AudioEncoderCap name="amrnb" enabled="true"
  minBitRate="5525" maxBitRate="12200"
  minSampleRate="8000" maxSampleRate="8000"
  minChannels="1" maxChannels="1" />
```

```
<AudioEncoderCap name="lpcm" enabled="true"
  minBitRate="768000" maxBitRate="4608000"
  minSampleRate="48000" maxSampleRate="48000"
  minChannels="1" maxChannels="6" />
```

```
<!--
  FIXME:
  We do not check decoder capabilities at present
  At present, we only check whether windows media is visible
  for TEST applications. For other applications, we do
  not perform any checks at all.
```

```
-->
<VideoDecoderCap name="wmv" enabled="true"/>
<AudioDecoderCap name="wma" enabled="true"/>
```

```
<!--
  The VideoEditor Capability configuration:
  - maxInputFrameWidth: maximum video width of imported video clip.
  - maxInputFrameHeight: maximum video height of imported video clip.
  - maxOutputFrameWidth: maximum video width of exported video clip.
  - maxOutputFrameHeight: maximum video height of exported video clip.
  - maxPrefetchYUVFrames: maximum prefetch YUV frames for encoder,
    used to limit the amount of memory for prefetched YUV frames.
    For this platform, it allows maximum 30MB(3MB per 1080p frame x 10
    frames) memory.
```

```
-->
<VideoEditorCap  maxInputFrameWidth="1280"
  maxInputFrameHeight="720" maxOutputFrameWidth="1280"
  maxOutputFrameHeight="720" maxPrefetchYUVFrames="10"/>
```

```
<!--
  The VideoEditor Export codec profile and level values
  correspond to the values in OMX_Video.h.
  E.g. for h264, profile value 1 means OMX_VIDEO_AVCProfileBaseline
  and level 4096 means OMX_VIDEO_AVCLevel41.
  Please note that the values are in decimal.
  These values are for video encoder.
```

```
-->
<!--
  Codec = h.264, Baseline profile, level 4
-->
```

```
<ExportVideoProfile name="h264" profile= "1" level="2048"/>
<!--
  Codec = h.263, Baseline profile, level 70
-->
<ExportVideoProfile name="h263" profile= "1" level="128"/>
<!--
  Codec = mpeg4, Simple profile, level 5
-->
<ExportVideoProfile name="m4v" profile= "1" level="128"/>
</MediaSettings>
```